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Filing Date: November 8, 2001

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing of claims in the application.

Claims:

1-36 (Cancelled)

- 37. (Currently amended) A method of generating cultured <u>functional</u> mast cells, comprising the steps of:
- a) contacting at least one CD34-positive cell with a flt-3 ligand and a stem cell factor to generate a proliferated population of progenitor cells; and thereafter
- b) contacting said progenitor cells with said stem cell factor and a cytokine suitable for differentiating the progenitor cells into mast cells, thereby forming a proliferated population of functional mast cells.
- 38. (Currently amended) The method of claim 37 in which the cytokine is IL-6 and the mast cells are mucosal mast cells.
- 39. (Previously presented) The method of claim 38 in which the IL-6 is human IL-6.
- 40. (Currently amended) The method of claim 37 in which the cytokine is IL-4-and the mast cells are connective tissue-type mast cells.
- 41. (Withdrawn) The method of claim 40 in which the IL-4 is human IL-4.
- 42. (Previously presented) The method of claim 37 in which the flt-3 ligand is human flt-3 ligand.

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43. (Previously presented) The method of claim 37 in which the stem cell factor is human

stem cell factor.

44. (Previously presented) The method of claim 37 in which the CD34-positive cell is a

human CD34-positive cell.

45. (Previously presented) The method of claim 37 in which the CD34-positive cell is

obtained from umbilical cord blood.

46. (Previously presented) The method of claim 37 in which the proliferated population of

progenitor cells comprises at least about 10<sup>7</sup> cells.

47. (Previously presented) The method of claim 37 in which the proliferated population of

progenitor cells comprises at least about 10<sup>8</sup> cells.

48. (Previously presented) The method of claim 37 in which the proliferated population of

progenitor cells comprises at least about 10<sup>9</sup> cells.

49. (Previously presented) The method of claim 37 in which the proliferated population of

progenitor cells comprises at least about 10<sup>10</sup> cells.

50. (Previously presented) The method of claim 37 in which the proliferated population of

progenitor cells comprises at least about 10<sup>11</sup> cells.

51-80 (Cancelled)

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